# Gebrauchsanleitung

GB Operating Instructions

F Mode d'emploi

NL Gebruiksinstructies

I Istruzioni per l'uso

E Instrucciones de utilización

## IG 458.1 W

Küppersbusch

Das Zentrum guter Küche.

426961

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# Warnings

**It is most important that this instruction book should be retained with the appliance for future reference. Should the appliance be sold or transferred to another owner, or should you move house and leave the appliance, always ensure that the book is supplied with the appliance in order that the new owner can be acquainted with the functioning of the appliance and the relevant warnings.**

**These warnings are provided in the interest of safety. You must read them carefully before installing or using the appliance.**

Unplug the appliance and turn off the water after use.

Any plumbing work to install this appliance should be carried out by a qualified plumber or competent person.

Any electrical work required to install this appliance should be carried out by a qualified electrician or competent person.

This appliance is designed to be operated by adults. Children should not be allowed to tamper with the controls or play with the product.

This product should be serviced by an authorized Network Service Centre, and only genuine spare parts should be used.

It is dangerous to alter the specifications or modify the product in any way.

Care must be taken to ensure that the appliance does not stand on the electrical supply cable.

This dishwasher is designed to be used for washing normal household utensils. Items that are contaminated by petrol, paint, steel or iron debris, corrosive, acidic or alkaline chemicals are not to be washed in a dishwasher.

When finishing loading or unloading close the door, as an open door can be a hazard.

Do not put in your dishwasher: Cutlery with wooden or horn handles or glued parts, bronze cutlery, saucepans with wooden handles unless they are sold as dishwasher proof, aluminium ware, crystal ware, leaded glass, plastic articles unless sold as dishwasher proof, antique china or fine decorated china unless sold as dishwasher proof. Always check with the manufacturer of the item if in any doubt.

A chemical reaction can occur between silver cutlery and stainless steel cutlery. As a precaution do not wash together.

Under no circumstances should you open the door whilst the appliance is in operation Always turn off the appliance before opening the door.

Built-in dishwashers only: The appliance must be secured to the underside of the worktop (see the relevant instructions). Failure to do this could result in an unstable appliance which may cause damage or injury.

Under no circumstances should you attempt to repair the appliance yourself. Repairs carried out by inexperienced persons may cause injury or more serious malfunctioning Refer to your local Network Service Centre. Always insist on genuine spare parts.

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# Technical data

| | |
|---|---|
| Width | 45 cm |
| Overall Depth | 57 cm |
| Overall Depth with Open Door | 115 cm |
| Height without Worktop | 82 cm |
| Capacity (in standard ICE place settings) | 8 |
| Supply Voltage | 230 V |
| Motor Rating during Washing | 200 W |
| Heating Element | 2800 W |
| Max. Power Absorbed | 3000 W |
| Water Supply Pressure | |
| minimum | 5 N/cm$^2$ |
| maximum | 80 N/cm$^2$ |

# Installation

## Positioning

After removing the outer carton, set up the machine in the selected spot, preferably very close to water loading and draining facilities. Furthermore, the machine can be installed with the sides and back in touch with the adjacent furniture or with the wall. The dishwasher features fill and drain hoses which can be turned either to the right or to the left (Fig. ❶ ) to suit the installation.
The machine can be installed under the kitchen counter or under the sink.
In this connection, please see the enclosed instructions.

## Levelling

The machine should be accurately levelled by adjusting the four levelling feet so that it be perfectly level (max. allowed error ±2°). An accurate levelling is a must to ensure a correct closure and good tightness of the door.

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## *Connecting to the water supply*

**Water supply**

The machine may be supplied with either cold or hot water. In the latter case, make sure that the temperature of the hot water never exceeds 65°C.
The inlet hose should be connected to a 3/4" gas thread spout (Fig. ❷ ) or to a quick-coupling tap (Press-Block). Make sure that the water supply pressure is within the limits indicated under the technical data.
The machine is backflooding-proof.

The water-stop device protects against water damages caused by leaks on the fill hose which could develop due to natural ageing of the hose.
In the water-stop system the leaking water fills the corrugated hose and activates a stop valve which cuts off the water supply to the machine.
This fault is shown by a red sector on the window (A - Fig. ❷ ).
Would this occur, please turn off the water tap and refer to your Service Agent to replace the hose.

**Water outlet connection**

The outlet hose should be firmly hooked over the edge of a sink or connected under the sink or to a suitable waste pipe in the wall which should incorporate an airbreak (Fig. ❸ )
The top of the drain hose should not be lower than 30 cm (minimum) or higher than 100 cm (maximum) from the floor level (Fig. ❸ ).
The water should be able to drain freely and, therefore, the outlet hose should not be choked or placed in such a way as to obstruct the normal water flow.
If an extension of the hose is required, it should not exceed 2 meters and the extension itself should have the same inner diameter as the machine drain hose.

## *Electrical connection*

The machine operates on a rated voltage of 230V (50Hz). Maximum power absorbed is approx. 3.00 kW.
The domestic wiring system (including wall sockets, interior wiring, fuses and electricity meters) should therefore be adequate and suitable to carry such a load .

**It is absolutely essential that the machine be properly earthed.**
**The manufacturer declines any liability should this safety measure not be observed.**

**This appliance complies with EEC Directive No. 87/308 of 2.6.87 dealing with radio interference suppression.**

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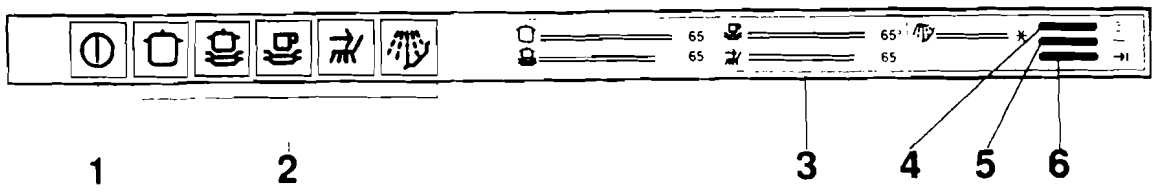
# Operation




## Description of the control panel

**1** On Off button
**2** Programme Selector Buttons
**3** Programme Guide
**4** Salt Refill Indicator Light
**5** Mains-on Indicator Light
**6** End of Programme Indicator Light

## 1. On/Off Button ⏻

Press to start press to switch off
To cancel an incorrect selection, turn the machine off by depressing the On/Off Button

## 2. Programme Selector Buttons

There are 5 programme buttons for the five main programmes on the machine.

## 3. Programme Guide

This guide shows the different wash programmes available on this appliance.
For a detailed explanation of the programmes see the Wash Programme Guide on Page 26.

## 4. Salt Refill Indicator Light

The indicator shows when the salt container needs refilling.

## 5. Mains-on Indicator Light

This light will come on when the On/Off button is pressed and the machine starts to operate.
It will not go out until the switch is pressed to turn the machine off, once the dishwashing cycle has been completed.

## 6. End of Programme Indicator Light →|

It indicates that the wash cycle has finished.

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## Loading the crockery

Prior to arranging the crockery in the baskets, do remove the bigger food scraps (such as tiny bones, fish-bones, meat or vegetable scraps, fruit peels, etc.) to prevent the filter from clogging, which would cause poor washing results.
Open the door and slide out the baskets to be able to load the crockery.

## Using the bottom basket

(Fig. ❹ - ❺ )

The lower basket is designed to take dishes, salad-bowls, cutlery, etc.
The cutlery should be placed into the special small removable basket.
To obtain good washing results, it is recommended to intermix spoons with knives and forks so that they will not stick together.
We also suggest that you stack the cutlery into the special basket with the handles facing downwards.
However, if the handles of your cutlery are very thin it is advisable to stack the cutlery with the handles facing upwards, so as to prevent them from sticking out from the bottom of the small basket and thereby blocking the lower spray arm.
Place tea spoons and other small cutlery on the special cutlery-rack on one side of the cutlery basket.

## Using the top basket (Fig. ❻ - ❼ )

The top basket is designed to take dishes (dessert plates, saucers) plus cups and glasses which should be arranged as shown in the respective pictures.

## Top basket raising & lowering

If very big plates (over 27 cm and up to 31 cm in diameter) are normally used, the top basket will have to be raised to the upper position. This will make it possible to properly arrange these extra large plates in the bottom basket. To raise the top basket, move the front runner stops (A - Fig. ❽ ) of the UPPER basket outward and slide the basket out.
Refit the basket in the higher position and replace the stops (A) in the original position.
With the top basket on this upper position there is of course less loading clearance in the basket itself (which will in fact only take dishes up to to 20 cm) and this will also prevent utilization of the basket's raised cup compartments.

**Important**

When loading the crockery be absolutely sure not to accidentally obstruct the water inlet funnel at the centre of the upper basket.
Only a correct loading of the dishwasher will ensure good washing results.
After loading the crockery, make sure that the spray arms turn freely.

## Reversible spray arm

If a small load of heavily soiled crockery is to be washed, this can be placed only into the bottom basket. At the same time the upper spray-arm position should be reversed as per Fig. ❾ .
To do so, unhook the upper spray-arm from the central support and re-fit it in a reverse position (holes on the bottom).
In this way the wash efficiency is improved, as the bottom basket is sprayed by both arms.
When the wash is completed, do remember to reset the upper arm to the original position (holes on the top).

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## Loading the rinse-aid

The rinse-aid dispenser, which automatically dispenses the right amount of rinse-aid at the proper time, is located inside the dishwasher door.
This special liquid product is essential to ensure prompt drying of the crockery and to make it come out crystal-clear since it prevents formation of stains due to the salts contained in the water

## Filling

Open the container by turning the lid (A) anticlockwise (Fig. 10 ).

Add rinse-aid until the indicator (B - Fig. 10 ) goes completely dark when the container is full

**Remember to replace and tighten the lid after every refill.**

Clean up any rinse aid spilt during filling with an absorbent cloth to avoid excessive foaming during the next wash cycle.
Add rinse-aid again when the indicator (B) becomes clear

## Adjusting the dose

According to the finish and drying results obtained adjust the dose of rinse-aid by means of the 6 position selector (C - Fig. 10 ) (position 1 - minimum dose, position 6 - maximum dose).
Gradually increase the dose if there are drops of water or lime spots on the dishes after washing. Reduce it if there are sticky whitish streaks on the dishes.

## Loading the detergent

The washing powder should be poured into the compartment of the container (Fig. 11 ).
If the lid of the container happens to be closed, to open it simply push back catch (D) which keeps it clamped down.

## Quantity of detergent

The quantity to be loaded depends on the brand used, on the degree of soil and type of load. On the average, we recommend 3 teaspoonfuls (20 grams) if you have to wash normally soiled crockery, and up to 4 teaspoonfuls (25 grams) for heavily soiled crockery.
After loading the detergent in the proper compartment, close the lid. The detergent will be automatically dispensed at the proper time.

**For the Intensive programme**

When using this programme it is necessary to add to the normal quantity of detergent an additional dose of 10 g (2 level teaspoons) on the closed lid of the dispenser.

**Important**

Only use detergents specially made for dishwashers.
To obtain fine washing results you should only use top quality detergents.
An insufficient quantity of detergent will give poor washing results, whereas an excessive quantity will not improve the results but will only represent a waste.

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## *Water softener*

Depending on the area, water contains more or less limestone and mineral salts which tend to deposit on the crockery forming whitish markings that eventually cause all surfaces to become dull.
The dishwasher incorporates a water softener which purifies the water of all limestone for dishwashing.
In this way the cleaning action is greatly enhanced, no incrustations form and during the rinsing phases the crockery is restored to its original brilliance.
Operation of the water softener is completely automatic.

## *Salt refilling*

After unscrewing the cap, fill 1 kg. of specific salt for water softeners using the funnel supplied with the machine into the container on the tub bottom (Fig. ⓬ ).
Fill the container with water (this operation should be carried out during the first salt filling only).
Carefully replace the container screwcap, making sure that the threading and the gasket have no trace of salt.

After this, it will be sufficient to periodically top up the container with salt only. This model features a salt refill indicator on the control panel.

**Note:**

Salt refilling is not required for a water hardness up to 7° dH.

**Important**

All salt refilling and topping up operations should be carried out immediately prior to starting any one of the complete wash cycles (with the exception of the RINSE & HOLD programme) in order to prevent the possibility that any salt granules or salt water, which might flow out of the salt container during refilling of the same, remain for some time on the bottom of the wash tub without being properly diluted.

Use only specific salt for dishwashers.

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## Adjusting the water softener

The water softener can treat water hardness up to 50°dH (German Scale) via 5 adjustment levels.

This appliance is supplied with a test strip «AQUATEST» so that you can test the water hardness up to 22°dH.
With water hardness beyond 22°dH ask the exact water hardness degree to the local Water Authority.

Find on the table below the level corresponding to the hardness of your water and the required adjustments.

| Level | Water hardness | | Use of Salt | Position on the water softener | Position on the machine |
|---|---|---|---|---|---|
| | dH German Scale | TH French Scale | | | |
| 1 | 0-7 | 0-14 | NO | NO | NO |
| *2 | 8-21 | 15-39 | YES | NO | NO |
| 3 | 22-28 | 40-50 | YES | YES | NO |
| 4 | 29-39 | 51-70 | YES | NO | YES |
| 5 | 40-50 | 71-90 | YES | YES | YES |

* The water softener is factory set on level 2 as this suits most users

If your water is level 1, there is no need to use salt or to adjust position. In this case do not take into account the salt light.

**Water softener adjustment** (Level 3 and 5)

If your water is level 3 or 5, proceed as follows.

- Slide out the lower basket and unscrew the cap of the salt container which is on the bottom of the wash-tub.
- Turn clockwise the two position selector from position — to position + with the aid of a screwdriver or a knife (Fig. ⓬).

**Adjustment on the machine** (Level 4 and 5)

If your water is level 4 or 5, open the door and drill membrane (A) on the upper left-hand corner of the machine (Fig. ⓭).

With a water hardness of level 5 the adjustments must be both carried out.

**Important:** Salt must be used regularly from level 2 upward.

## Starting the machine

The controls for this appliance are positioned on the top of the dishwasher door. The door must be partially opened for the controls to be used.

Push the ON/OFF Button ⏻ (1) to switch the appliance on.

The Indicator Lights ≈ (5) and →| (6) will come on.

**Attention:** should the END indicator light →| (6) not come on, it means that the previously selected programme hasn't finished. In this case, wait until the cycle is over or cancel the programme (see Cancel the Wash Program).

Depress the button (2) which corresponds to the programme you have selected, until the indicator light →| (6) goes out.

Close the door; the machine will begin operation.

## Stopping the machine

The machine stops automatically and an audible signal will sound for about 2 seconds.

Open the door only after the end of the audible signal. The ON ≈ (5) and END →| (6) indicator lights illuminate.

Depress button ⏻ (1) to switch off the appliance.

Turn off the water supply and disconnect the appliance from the electric network.

**Wait a few minutes before removing the dishes; in this way you will avoid burning your fingers and the drying will be improved!**

## Cancel the Wash Programme

If you wish to cancel the operating programme and select a new programme instead of a previously selected one, follow these instructions:

depress contemporaneously and buttons when the appliance is on.

Close the door. After a few minutes an audible signal will sound the appliance can be programmed again.

**Wait for the end of the audible signal (about 2 seconds) before opening the door and selecting a new programme.**

### Caution

In general it is not advisable to open the door while the machine is working; if the door is opened however, a safety device ensures that the machine stops.

## Emptying the baskets

You are advised to empty the lower basket first and then the upper one. This will avoid any drops of water from falling from the upper basket onto the contents of the lower basket.

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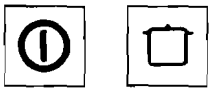
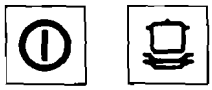
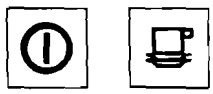
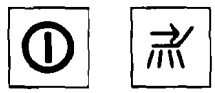
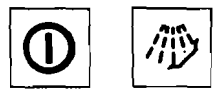
# Washing programmes

| Programme | Quantity of food scraps and type of load | Selected programme | Required pushbutton | Cycle description |
|---|---|---|---|---|
| 1 | Heavily soiled crockery, pots, pans and cutlery, with big quantity of food scraps | Intensive with prewash |  | Prewash at 55°C<br>Main wash at 65°C<br>2 cold rinses<br>1 hot rinse at 65°C<br>Hot air drying |
| 2* | Normally soiled crockery, pots, pans and cutlery, with normal quantity of food scraps | Universal with prewash |  | Cold prewash<br>Main wash at 65°C<br>1 cold rinse<br>1 hot rinse at 65°C<br>Hot air drying |
| 3 | Lightly soiled crockery, pots and cutlery | Economy with prewash |  | Cold prewash<br>Main wash at 55°C<br>1 cold rinse<br>1 hot rinse at 55°C<br>Hot air drying |
| 4** | Lightly soiled crockery | Quick wash |  | Main wash at 55°C<br>1 cold rinse<br>1 hot rinse at 55°C |
| 5 | Partial load (to be completed later in the day) | Rinse & hold |  | Cold rinse, to prevent food scraps from drying up and sticking to the dishes |

* This programme is equivalent to IEC 436/DIN 44990 standard.
Recommended quantity of detergent: 20 g.
Standard place settings: 8.

** This is a special programme to wash in a short time (approx. 32 minutes) a full load of lightly soiled dishes, glasses and crockery (except pots) so that you may re-use them promptly. Due to the shortness of this programme, no drying phase is provided.

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# Care & cleaning

## Cleaning the filter assembly

The filter assembly consists of a large circular fine-mesh filter (A) and two small cone-shaped filters (B-C), fitting one within the other, both being housed in the large filter (Fig. 15).
We recommend that you inspect the two small filters (B) and (C) after each wash cycle, removing any food scraps that you might detect.
To remove the filter (B), simply lift it up (Fig. 15).
To remove the inner filter (C), squeeze together the two small plastic tongues (Fig. 15) sticking out from the bottom of outer filter (B).
Replace the filters by pushing them back until you feel they click.
The large fine-mesh filter (A) should be cleaned from time to time (roughly once every two months) on both sides with a suitable brush.
To remove this large filter (A), take off the bottom spray arm by releasing the catches (D - Fig. 16) and unlock the locking ring (E - Fig. 16) by turning it anticlockwise.
Replace the assembly reversing the above procedure, making sure that the outer rim of the circular filter fits correctly in its housing on the tub bottom.
The dishwasher should not be operated without the filters being correctly installed.
Periodic cleaning of the filters is essential for a smooth and efficient operation of the machine.

## Cleaning the spray arm nozzles

The holes of the spray arm nozzles should not be obstructed as this would greatly reduce the effectiveness of the washing cycle. To remove the bottom spray arm release it from its securing catches (D) and pull it out (Fig. 16).
To clean the nozzles of the top spray arm, slide out the top basket whereby the spray arm will become perfectly accessible. To remove it, unhook it from the central support (Fig. 9).

## External cleaning

The control board should be wiped periodically with a soft damp cloth and, if necessary, with a little neutral detergent. To clean these parts, never use abrasive products which might scratch the surface

## Long idle periods

If the machine is not to be used for some time, it is advisable to take the following precautions.

Disconnect the machine from the electrical network and from the water supply.

Fill up the rinse aid container.

Leave the door ajar to prevent bad smells from lingering in the machine.

Leave the inner part of the machine clean, by carrying out at least a rinse & hold programme.

## If you are moving

If you are moving and the dishwasher is transferred to a new location, make sure that the machine is not tilted too much during transport.

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## Helpful Hints

### For best washing results:

Before loading, remove all the scraps of food and soak very heavily soiled pots and pans.

Always arrange saucepans, cups and glasses etc. upside-down.

Tilt items with convex or concave surfaces so that the water drains off easily.

Long items of cutlery such as ladles, carving knives etc. should be positioned horizontally in the upper basket.

Avoid contact between the dishes as far as possible, correct arrangement of the items will give better washing results.

Light items (plastic bowls etc.) should be loaded in the upper basket and arranged so that they do not move during washing.

### To save energy

Do not prewash the dishes under running water.

Place the dishes in the machine immediately after every meal and wait until the dishwasher is full before washing.

If necessary run the Rinse and Hold programme (see Programme Chart on the following pages), so that any food scraps do not become caked on the dishes while you are waiting to run the complete wash programme.

Select the economic programme when the baskets are not very full and/or when the dishes are not very soiled following the instructions given in the Programme Chart (economy programme, quick programme).

### Items not suitable for dishwasher

The following should not be washed in the dishwasher:

Cutlery or dishes with wooden or horn handles or glued parts.

Handmade items, wooden objects, antiques or hand-painted china.

Certain types of decoration can discolour when washed in a dishwasher.

Crystal ware and plastic objects, if not guaranteed dishwasher-proof, should be washed by hand. You are advised to place them in the upper basket and to select a delicate programme.

Certain types of glass can also become opaque after being washed several times in a dishwasher.

Silver cutlery tends to go black if mixed with steel cutlery. Place it in the cutlery basket separate from the others.

Iron and cast iron objects can rust and stain the other items.

Aluminium tends to go black; copper, pewter and brass tend to stain.

**Note:** When buying new dishes, ensure that they are dishwasher-proof.

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# Something not working

If your dishwasher does not work, it can be a matter of servicing faults or of trifles that you can solve easily and by yourself. Before calling the Service Centre, check the following list of possible sources of fault.

**The machine does not start**
– The door has not been properly closed
– The plug is not properly inserted in the power socket.
– There is no current at the socket (Check the fuse).

**The machine does not load water**
– The water tap is off
– The water supply has been cut off
– The inlet hose is bent.
– The water inlet hose filter is clogged.

**The machine does not drain water**
– The drain hose is bent.
– The sink drain is blocked.
– The drain hose extension is not correct.
– The wall drain has no vent-hole.

**Worst washing problems**
– The baskets are too full.
– The dishes have not been properly arranged.
– The spray arms are prevented from rotating freely.
– The spray arm holes are clogged.
– The water inlet tunnel in the centre of the upper basket is covered by dishes.
– The end of the drain hose is submerged in waste water (in the sink).
– The filters are clogged.
– The filters are not in the proper position.
– Not enough detergent has been used or it is unsuitable.
– The detergent is old or has gone hard.
– The salt container cap is not properly closed.
– The selected washing programme is too gentle.

**Visible lime deposits or white film on the dishes**
– There is no salt.
– The softener has not been adjusted to the hardness of water
– The rinse aid has run out or too little is being used.

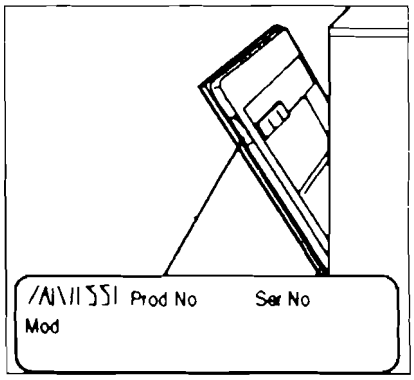
**Traces of coffee, tea or lipstick have been left on dishes**
– The dose of detergent is insufficient.
– The detergent is old or of poor quality.

**The machine is noisy**
– The dishes are rattling against each other
– The spray arms are rotating against the dishes.

**The dishes are not perfectly dry**
– The dishes have been left too long inside the machine

**The door does not shut properly**
– The dishwasher has not been perfectly levelled or not correctly set up

If after the above mentioned checks the fault has not been solved, call your nearest Service Centre and give the kind of fault, the model (Mod.), product (Prod. No) and serial number (Ser. No) of the appliance. This information can be found on the rating plate of the appliance (see picture)



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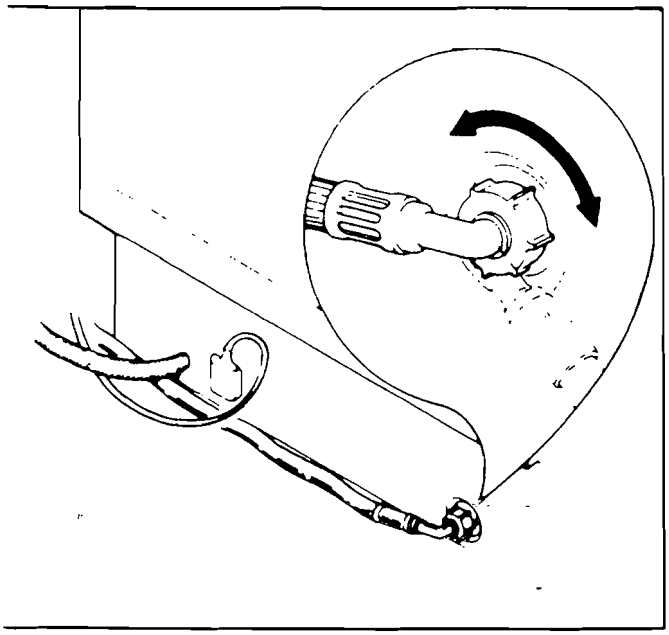
## *Security device to prevent water flood*

The machine has been provided with two additional devices to prevent water flood, which have the following characteristics:

**1.** In the water inlet hose (see water connection): the device is started by all damages of the water inlet hose and stops the water inflow. It is efficacious also with the machine off

**2.** In the bottom of the machine: the device is started by all water leaks in the machine and it is efficacious only with the machine on

To repair the machine, call the Service Centre



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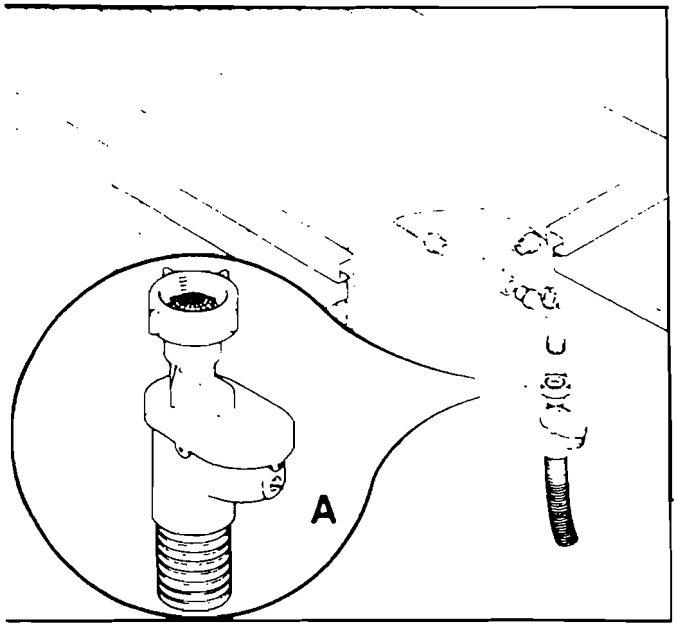
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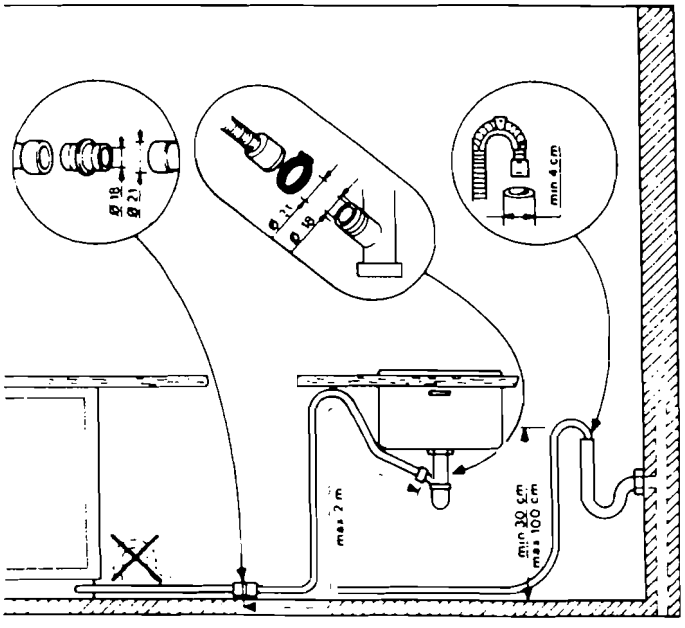
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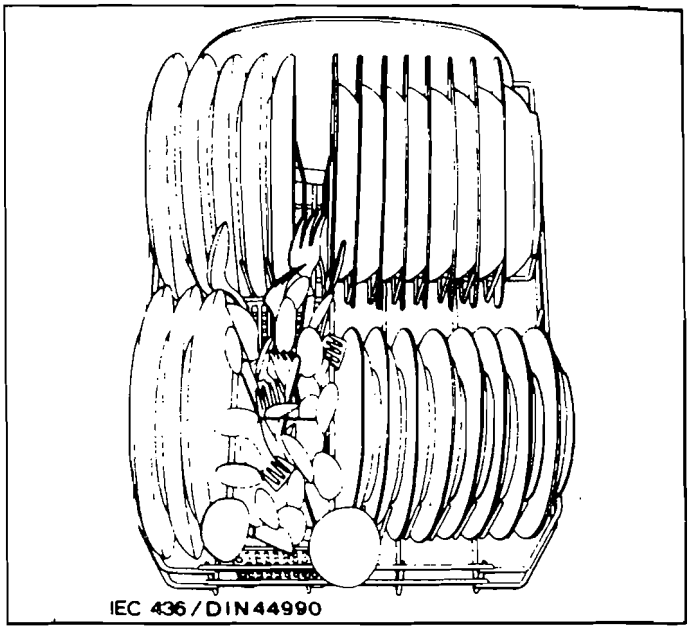
min 4 cm
max 2 m
min 30 cm
max 100 cm

3


IEC 436 / DIN 44990

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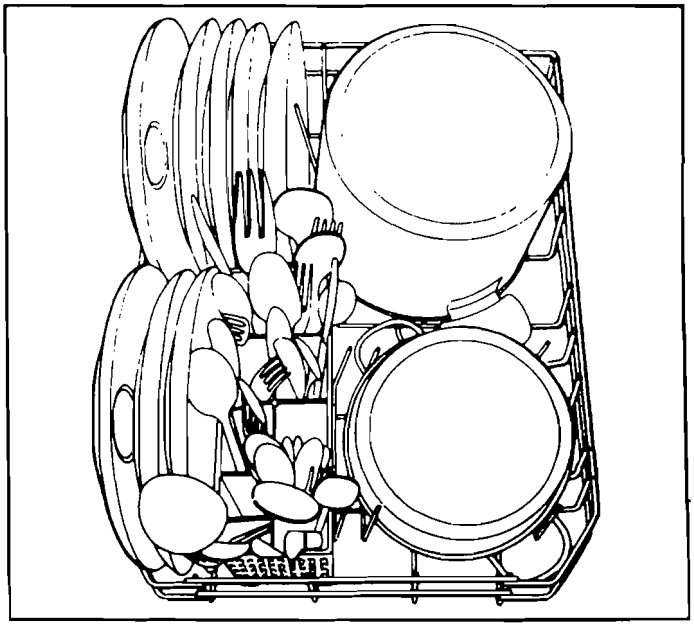

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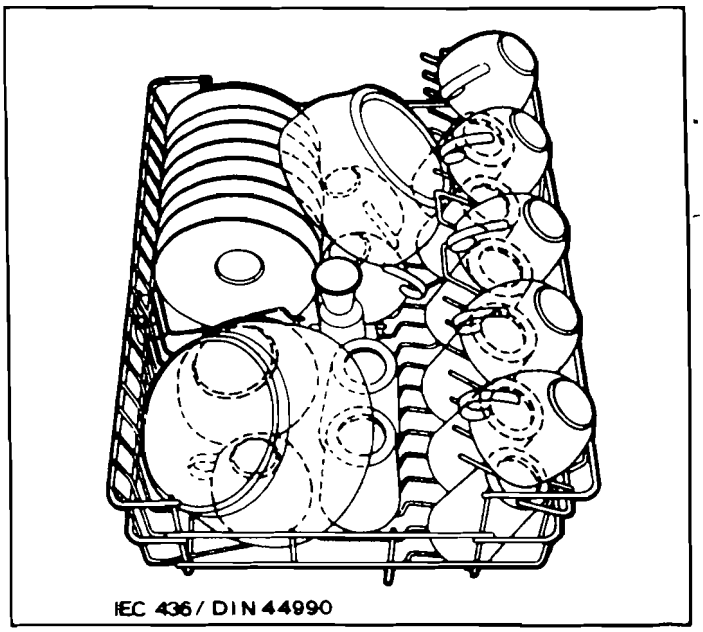
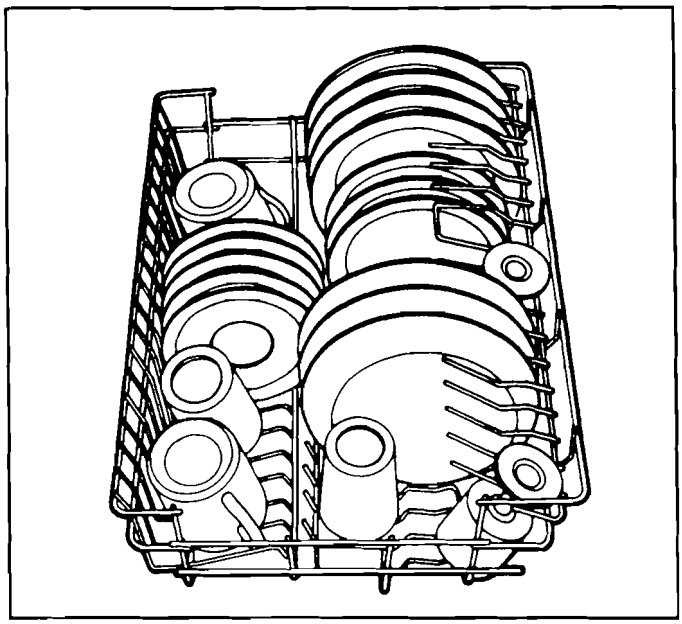

IEC 436 / DIN 44990

6



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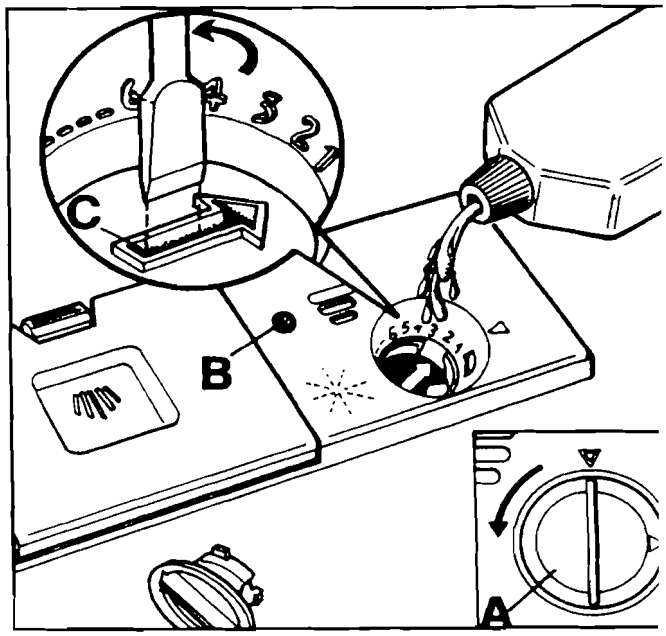


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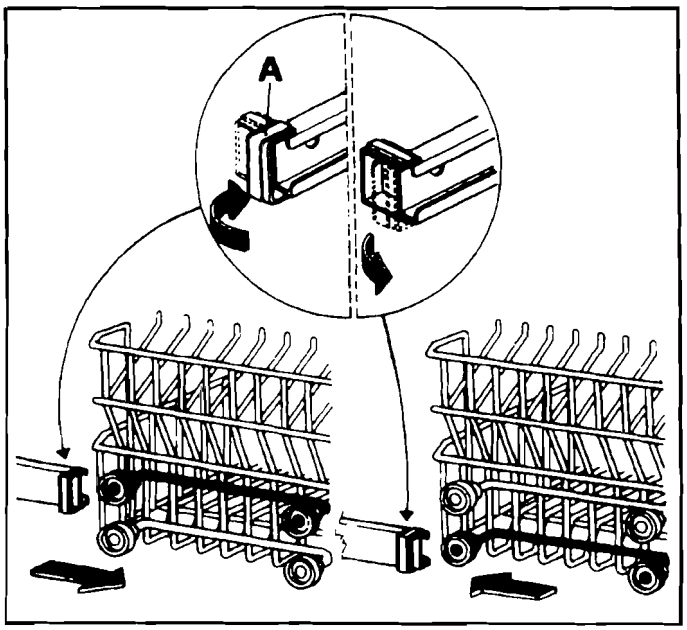


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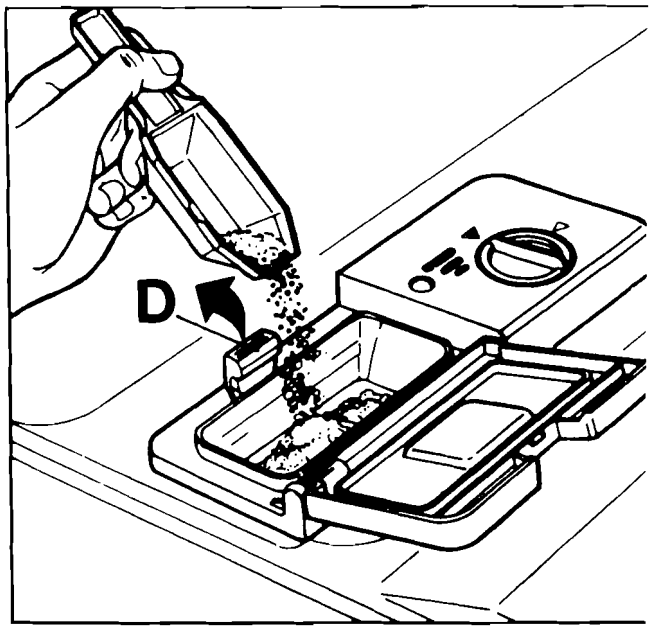


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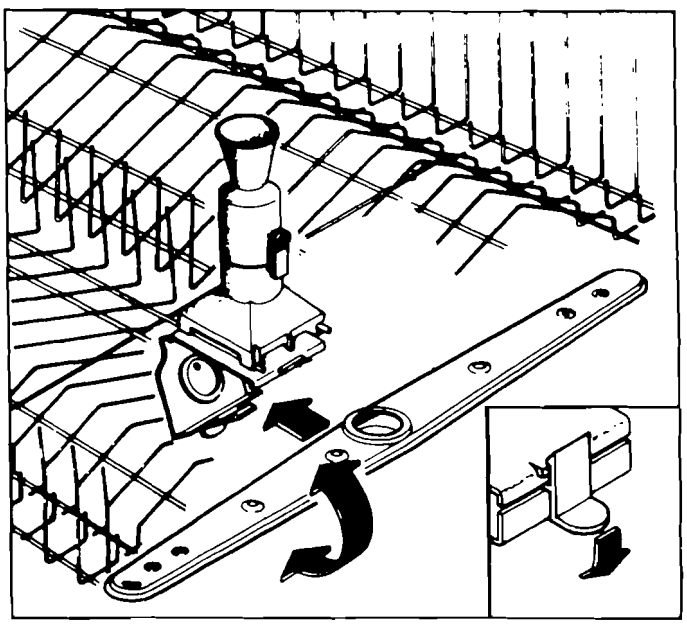

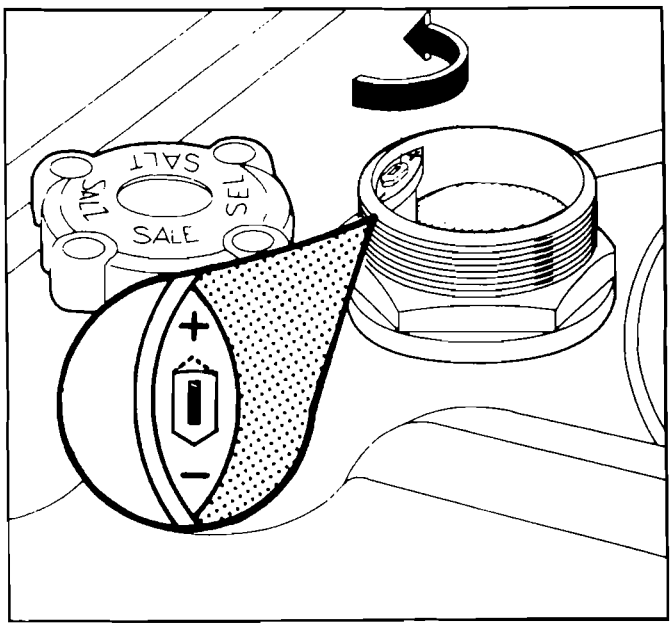


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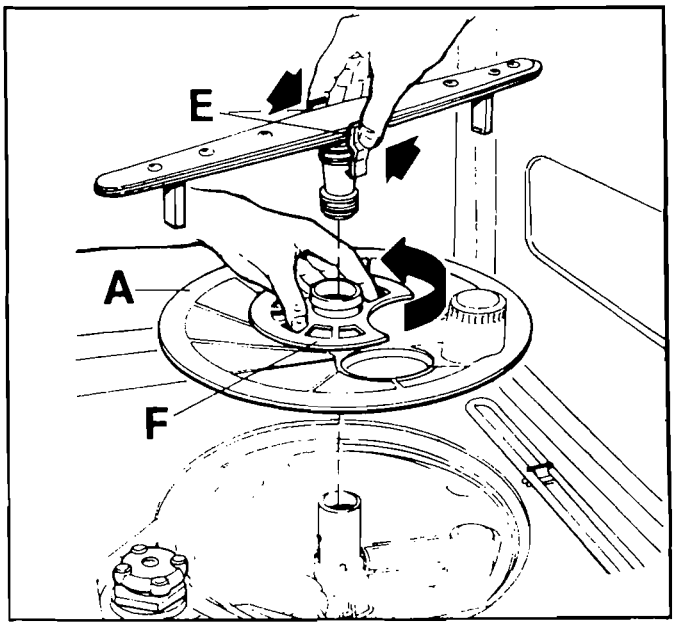


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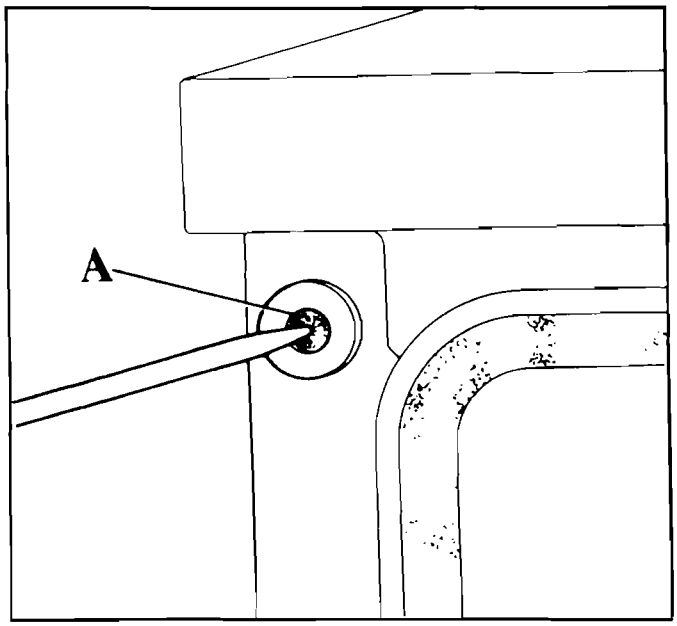


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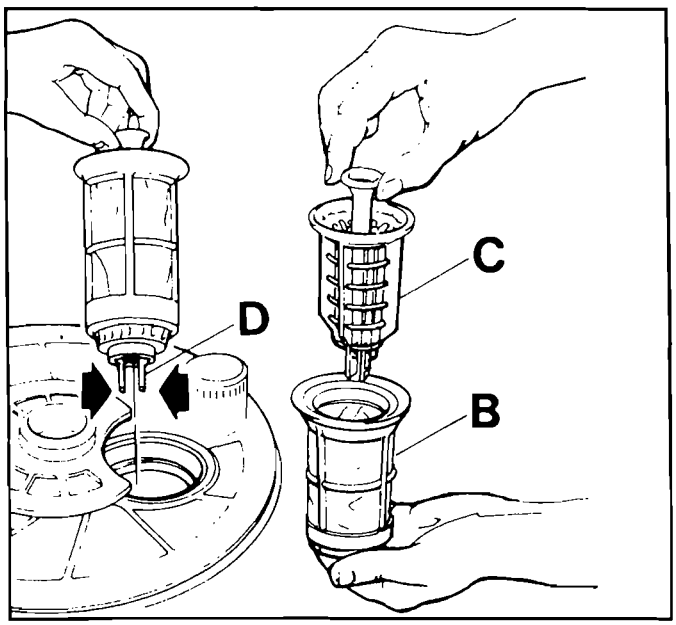


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